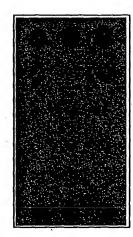
LexA-MLH1 / B42-f5
LexA / B42-f5
LexA-myc / B42-f5
LexA-bicoid / B42-f5
LexA-K-rev1 / B42-f5
LexA-K-rev-1 / Krit1





Leu-

X-gal

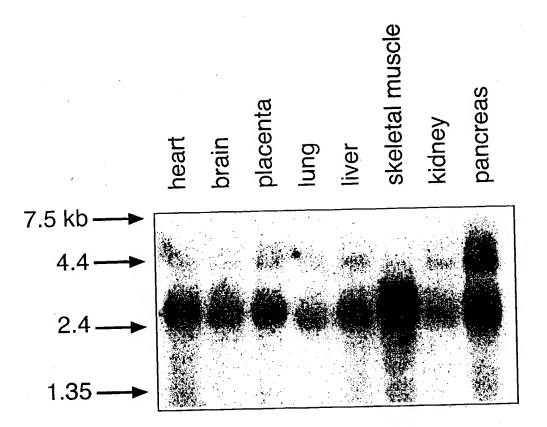


Fig. 2

	$\label{eq:cocc} GGCGCGTCTGGGGCGCTTTCGCAACATTCAGACCTCGGTTGCAGCCCGGTGCCGTTGAGCTGAAGAGGGTTTCACATCTTACTCCGCCCCCCCC$	
181	CGCGGAGCTGCCCCCACCGTCACCTCTAGTGAGCGCCTAGTCCCAGACCGGCGGAATGACCTCCGCAAAGAAGATGTTGCTATGGAATTCCR G A A P T V T S S E R L V P D P P N D L R K E D V A M E L	270
271	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	360
361	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	450
451	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	540
5 41	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	630
631	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	720
721	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	810
811	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	900
901	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	990
991	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1080
081	GAAAGATCATTGAGTTCAGGATCAAATTTTTTGTTCTGAACAAAAACTTCTGGCATCATAAACAAATTTTGTTCAGCCAAAGACTCAGAAER R S L S S G S N F C S E Q K T S G I I N K F C S A K D S E	1170
171	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1260
261	$\begin{array}{cccccccccccccccccccccccccccccccccccc$: 1350
351	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1440
441	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1530
.531	ATATTTCTCAATCGGACCTCAGGCAAAATGGCAATACCTGTGCTTTGGAAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTAGCAAGAACCIFLNRTSGGKAAATGCAATGCCAATACCTGTGCTTTTGGAAGTTTCTGGAGAAGTATCCTTCAGCTGAGGTAGCAAGAACCIFTTCTGGAGAAGTATCCTTCAGCTGAGGTAGCAAGAACCI	1620
621	GCAGACTOGAGAGATOTOCCAGAACTTCTTAAACCTCTTGGTCTCTACGATCTTCGGGCAAAAACCATTGTCAAGTTCTCAGATGAATAC A D W R D V S E L L K P L G L Y D L R A K T I V K F S D E Y	: 1710
711	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$; 1800
801	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$; 1890
	CAGCTTTCAAGCTCATCTGTTATGCATAGCTTTGCACTTCAAAAAAAGCTTAATTAA	

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V	TAGTECRKSV RGPMYDDPTL	SSLANVLHKN VELIAYFEKV
KEDVAMELER KEDKEGKHEP	AQFGA PKQRRSIIRD	SPOGLKFRSK NPOGKAFRSK
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d-uvendoml
e-mutyecoli
  a-hmed1
b-endo3ecoli
                                                                  e-mutyecoli
                                                                                   a-hmedl
b-endo3ecoli
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Fig. 41

YFISPOGLKF YYOSPTGDRI

FGKTAGRFDV SGATCGRSDT

G W E R V V K Q R L G W K R R E V F R K

CRKSVPC . . . LGP

回 E O

FGATA

HASAOH

MED1 PCM1

RGIKS85 PAPKA76 EDFDFTVLSK FDFKOGIBCY

H K N G E T S L K P G P A C D L T . . L

MED1 PCM1

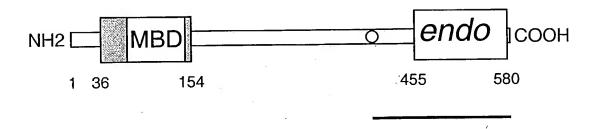


Fig. 5

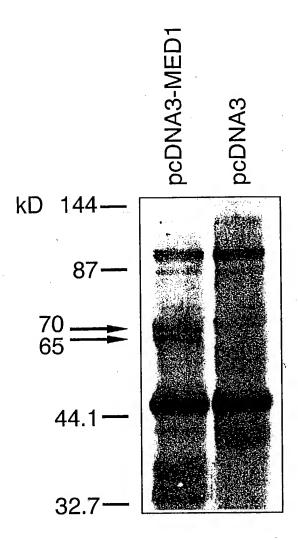
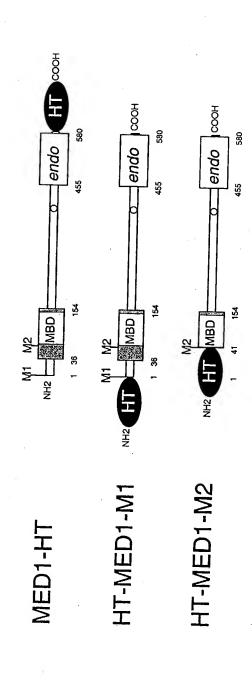


Fig. 6





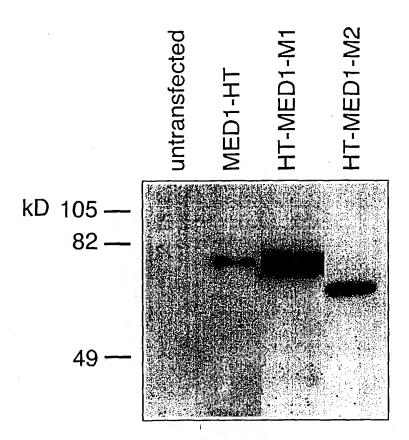
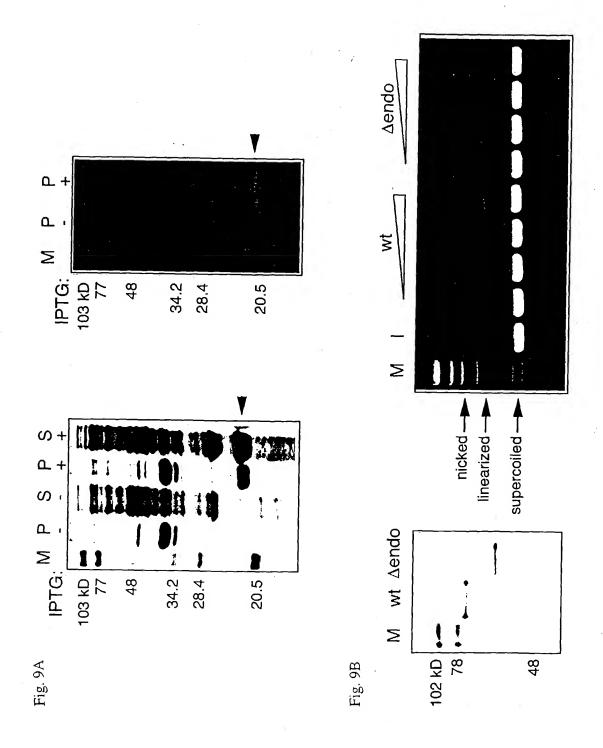


Fig. 7B



Fig. 8



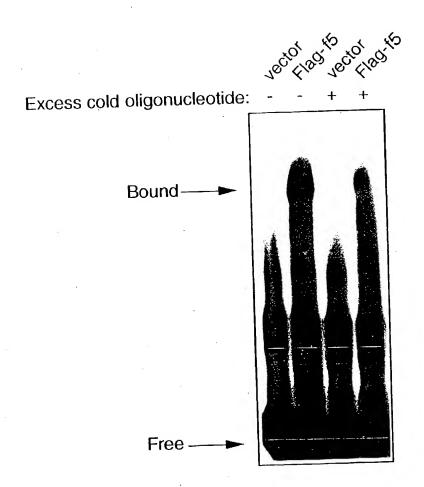


Fig. 10A

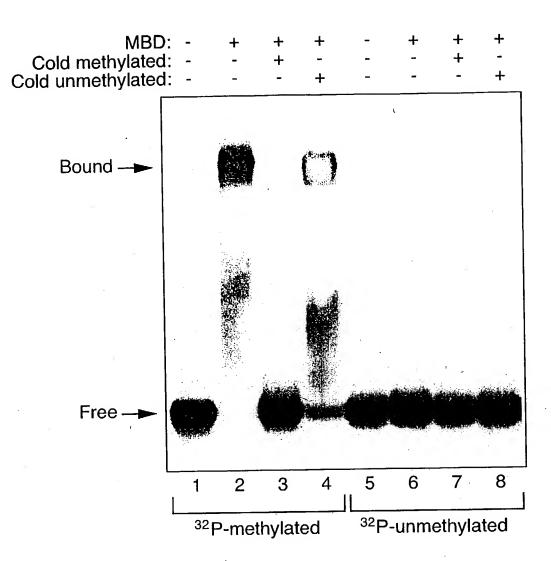
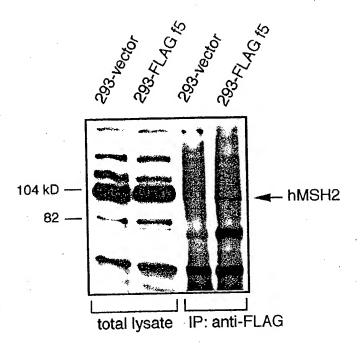
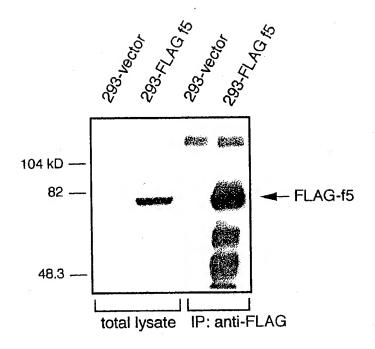


Fig. 10B



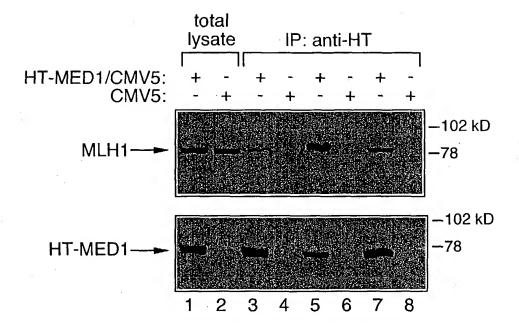
Western: anti-hMSH2

Fig. 11A



Western: anti-FLAG

Fig. 11B



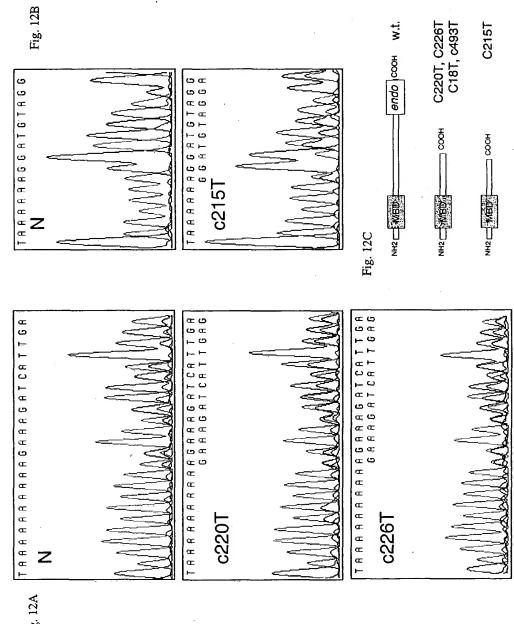


Fig. 12A

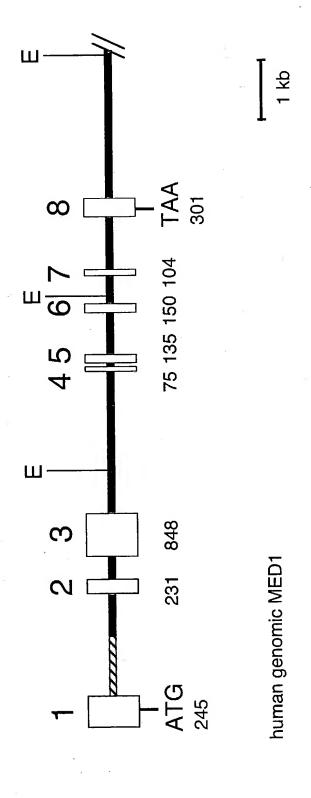


Fig. 13

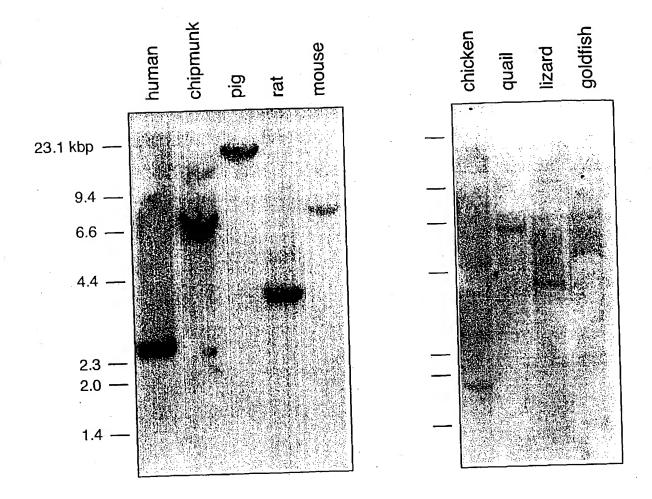


Fig. 14A

Fig. 14B

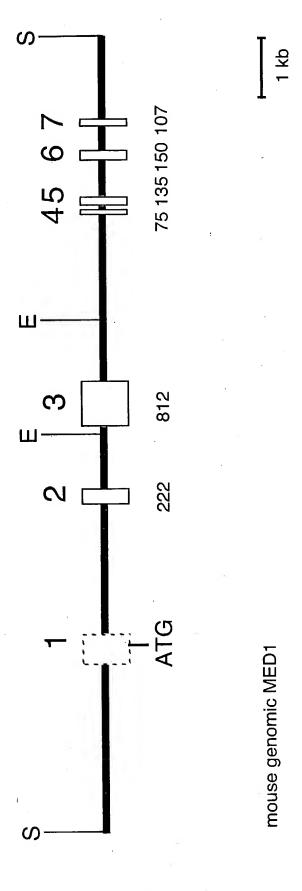


Fig. 15

CAAGGAAGAT ATTGCTGTTG GACTGGGAGG AGTGGGAGAA GATGGAAAGG 51 ACCTGGTGAT AAGCAGTGAG CGCAGCTCCC TTCTCCAAGA GCCCACTGCT 101 TCTACTCTGT CTAGTACTAC AGCGACAGAA GGCCACAAGC CTGTCCCGTG 151 TGGATGGGAA AGAGTTGTGA AGCAAAGGTT ATCTGGGAAA ACTGCAGGAA 201 AATTTGATGT ATACTTTATC AGCCCACAAG GATTGAAGTT CAGATCAAAA 251 CGTTCACTTG CTAATTATCT TCTCAAAAAT GGGGAGACTT TTCTTAAGCC 301 TGAAGATTTT AATTTTACTG TACTGCCGAA AGGGAGCATC AATCCCGGTT 351 ATAAAÇACCA AAGTTTGGCA GCTCTGACTT CCCTGCAGCC AAATGAAACT 401 GACGTTTCAA AGCAGAACCT CAAGACACGA AGCAAGTGGA AAACAGATGT 451 GTTGCCTCTG CCCAGTGGTA CTTCAGAGTC GCCAGAAAGC AGCGGACTGT 501 CTAACTCTAA CTCGGCTTGC TTGCTATTGA GAGAACATAG GGACATTCAG 551 GATGTTGACT CTGAGAAGAG GAGAAAGTCC AAAAGAAAGG TGACTGTTTT 601 GAAAGGAACT GCAAGTCAGA AAACCAAACA AAAGTGCAGG AAGAGTCTCT 651 TAGAGTCTAC TCAAAGAAAC AGAAAAAGAG CATCTGTGGT TCAGAAGGTG 701 GGTGCTGATC GCGAGCTGGT GCCACAGGAA AGTCAACTCA ACAGAACCCT 751 CTGCCCTGCA GATGCCTGTG CAAGGGAGAC TGTTGGCCTG GCTGGGGAAG 801 AAAAATCACC AAGCCCAGGA CTGGATCTTT GTTTCATACA AGTAACTTCT GGCACCACAA ACAAATTCCA TTCAACTGAA GCAGCAGGTG AAGCAAATCG 901 TGAGCAGACT TTTTTAGAAT CAGAGGAAAT CAGATCGAAG GGAGACAGAA 951 AGGGGGAGGC ACATTTGCAT ACTGGTGTTT TACAGGATGG CTCTGAAATG 1001 CCCAGCTGCT CACAAGCCAA GAAACACTTT ACTTCTGAGA CATTTCAAGA 1051 AGACAGCATC CCACGGACAC AAGTAGAAAA AAGGAAAACA AGCCTGTATT TTTCCAGCAA GTACAACAAA GAAGCTCTTA GCCCCCCAAG ACGCAAATCC 1101 1151 TTCAAGAAAT GGACCCCTCC TCGGTCACCT TTTAATCTTG TTCAAGAAAT 1201 ACTTTTCCAT GACCCATGGA AGCTCCTCAT CGCGACTATA TTTCTCAATC 1251 GGACCTCAGG CAAGATGGCC ATCCCTGTGC TGTGGGAGTT TCTAGAGAAG 1301 TACCCTTCAG CTGAAGTGGC CCGAGCTGCC GACTGGAGGG ACGTGTCGGA

1351	GCTTCTCAAG	CCTCTTGGTC	TCTACGATCT	CCGTGCAAAA	ACCATTATCA
401	AGTTCTCAGA	TGAATATCTG	ACAAAGCAGT	GGAGGTATCC	GATTGAGCTT
1451	CATGGGATTT	GGTTAAAATA	TGGCAACGAC	TCTACCGGAT	CTTTTGTGTC
1501	AATGAATGGA	ACAG			

mouse MED1 protein (upper sequence) x human MED1 protein (lower sequence)

1	KEDIAVGLGGVGEDGKDLVISSERSSLLQEPTAST.LSSTTATEGHKP	47
36	KEDVAMELERVGEDEEQMMIKRSSECNPLLQEPIASAQFGATAGTECRKS	85
48	VPCGWERVVKORLSGKTAGKFDVYFISPOGLKFRSKRSLANYLLKNGETF	97
86	VPCGWERVVKQRLFGKTAGRFDVYFISPQGLKFRSKSSLANYLHKNGETS	135
98	LKPEDFNFTVLPKGSINPGYKHQSLAALTSLQPNETDVSKQNLKTRSKWK	147
136	LKPEDFTVLSKRGIKSRYKDCSMAALTSHLQNQSNNSNWNLRTRSKCK	185
148	TDVLPLPSGTSESPESSGLSNSNSACLLLREHRDIQDVDSEKRRKSKRKV	197
	KDVFMPPSSSSELQESRGLSNFTSTHLLLKEDEGVDDVNFRKVRKPKGKV	
198	TVLKGTASQKTKQKCRKSLLESTQRNRKRAS	228
236	TILKGIPIKKTKKGCRKSCSGFVQSDSKRESVCNKADAESEPVAQKSQLD	2,85
	•	
229		263
	CSPTRKDFTGEKIFQEDTIPRTQIERRKTSLYFSSKYNKEALSPPRRKAF	
264	KKWTPPRSPFNLVQEILFHDPWKLLIATIFLNRTSGKMAIPVLWEFLELY	313
314	PSAEVARAADWRDVSELLKPLGLYDLRAKTIIKFSDEYLTKOWRYPIELH	363
486		535
364	GIWLKYGNDSYRIFCVNEWKO 384	
536	GIG.KYGNDSYRIFCVNEWKQ 555	

ggttttgttttccagCAAGGAAGATATTGCTGTTGGACTGGGAGGAGTG GGAGAAGATGGAAAGGACCTGGTGATAAGCAGTGAGCGCAGCTCCCTTCT CCAAGAGCCCACTGCTTCTACTCTGTCTAGTACTACAGCGACAGAAGGCC ACAAGCCTGTCCCGTGTGGATGGGAAAGAGTTGTGAAGCAAAGGTTATCT GGGAAAACTGCAGGAAAAATTTGATGTATACTTTATCAGgtaagcatttag Gaaggaaaata

Fig. 18B

Exon 3

ctttttttttttccttttaagCCCACAAGGATTGAAGTTCAGATCAAAAC GTTCACTTGCTAATTATCTTCTCAAAAATGGGGAGACTTTTCTTAAGCCT GAAGATTTTAATTTTACTGTACTGCCGAAAGGGAGCATCAATCCCGGTTA TAAACACCAAAGTTTGGCAGCTCTGACTTCCCTGCAGCCAAATGAAACTG ACGTTTCAAAGCAGAACCTCAAGACACGAAGCAAGTGGAAAAACAGATGTG TTGCCTCTGCCCAGTGGTACTTCAGAGTCGCCAGAAAGCAGCGGACTGTC TAACTCTAACTCGGCTTGCTTGCTATTGAGAGAACATAGGGACATTCAGG ATGTTGACTCTGAGAAGAGGGAGAAAGTCCAAAAGAAAGGTGACTGTTTTG AAAGGAACTGCAAGTCAGAAAACCAAACAAAAGTGCAGGAAGAGTCTCTT AGAGTCTACTCAAAGAAACAGAAAAAAGAGCATCTGTGGTTCAGAAGGTGG GTGCTGATCGCGAGCTGGTGCCACAGGAAAGTCAACTCAACAGAACCCTC AAAATCACCAAGCCCAGGACTGGATCTTTGTTTCATACAAGTAACTTCTG GCACCACAAACAATTCCATTCAACTGAAGCAGCAGGTGAAGCAAATCGT GAGCAGACTTTTTTAGAATCAGAGGAAATCAGATCGAAGGGAGACAGAAA GGGGGAGGCACATTTGCATACTGGTGTTTTTACAGGATGGCTCTGAAATGC CCAGCTGCTCACAAGCCAAGAAACACTTTACTTCTGAGACATTTCAAGgt actcagtgcatgaaaa

Fig. 18C

Exon 4

gactataaactaattttgcttctc**ag**AAGACAGCATCCCACGGACACAAG TAGAAAAAGGAAAACAAGCCTGTATTTTTCCAGCAAGTACAACAAAGAA G**gt**acccacctttccctaagc

Fig. 18D

Exon 5

 $\label{thm:constraint} tatatttntgn \textbf{a} \textbf{g} CTCTTAGCCCCCCAAGACGCAAATCCTTCAAGAAATG} \\ GACCCCTCCTCGGTCACCTTTTAATCTTGTTCAAGAAATACTTTTCCATG \\ ACCCATGGAAGCTCCTCATCGCGACTATATTTCTCAATCGGACCTCAG \textbf{g} \\ \textbf{t} tnggggtcattgncat$

Fig. 18E

Exon 6

tgtttatgctcccc**ag**GCAAGATGGCCATCCCTGTGCTGTGGGAGTTTCT AGAGAAGTACCCTTCAGCTGAAGTGGCCCGAGCTGCCGACTGGAGGGACG TGTCGGAGCTTCTCAAGCCTCTTGGTCTCTACGATCTCCGTGCAAAAACC ATTATCAAGTTCTCAG**gt**atgtccccagcccag

Fig. 18F

Exon 7

tggatgtgtatccctc**ag**ATGAATATCTGACAAAGCAGTGGAGGTATCCG ATTGAGCTTCATGGGATTTGGTTAAAATATGGCAACGACTCTACCGGAT CTTTTGTGTCAATGAATGGAACAG**gt**aagcccaccactggggcc

GCGGCGCGTCTGGGGCGCTTTCGCAACATTCAGACCTCGGTTGCAGCCCGGTGCCGTGAGCTGAA
GAGGTTTCACATCTTACTCCGCCCCACACCCTGGGCGTTGCGGCGCTCGGTTGCTGCAGCCG
GACCCTGCTCGATGGGCACGACTGGGCTGGAGAGTCTGAGTCTGGGGGACCGCGGAGCTGCCCCCA
CCGTCACCTCTAGTGAGCGCCTAGTCCCAGACCCGCCGAATGACCTCCGgtaagttactgtccct
tttgggcctcagtttcaccacctgtaaaatggtatcgggagagtggacagtgtgtggggcctttcta
acctttgacagagggtcggcanaaacctcgaagcccacgggtttagttactagggaccca
ggtgctcttcctgtgcgatcagc...

Fig. 19B

Exon 2

aatctgaaatgtggtccagttcttttaaaagtcccttctatttactagcagtaagtttccttt aatatcattttctagCCCACAAGGACTGAAGTTCAGATCCAAAAGTTCACTTGCTAATTATCTTCA CAAAAATGGAGAGACTTCTCTTAAGCCAGAAGATTTTGATTTTACTGTACTTTCTAAAAGGGGTAT CAAGTCAAGATATAAAGACTGCAGCATGGCAGCCCTGACATCCCATCTACAAAACCAAAGTAACAA TTCAAACTGGAACCTCAGGACCCGAAGCAAGTGCAAAAAGGATGTGTTTATGCCGCCAAGTAGTAG TTCAGAGTTGCAGGAGAGCAGAGGACTCTCTAACTTTACTTCCACTCATTTGCTTTTGAAAGAAGA TGAGGGTGTTGATGATGTTAACTTCAGAAAGGTTAGAAAGCCCCAAAGGAAAGGTGACTATTTTGAA AGGAATCCCAATTAAGAAAACTAAAAAGGATGTAGGAAGAGCTGTTCAGGTTTTGTTCAAAGTGA TAGCAAAAGANAATCTGTGTGTAATAAAGCAGATGCTGAAAGTGAACCTGTTGCACAAAAAAGTCA GCTTGATAGAACTGTCTGCATTTCTGATGCTGGAGCCATGTGAGACCCTCAGTGTGAGCAGTGA AGAAAACNGCCTTGTAAAAAAAAAAAGAAGATCATTGAGTTCAGGATCAAATTTTTGTTCTGAACA AAAAACTTCTGGCATCATAAACAAATTTTGTTCAGCCAAAGACTCAGAACACAACGAGAAGTATGA GGATACCTTTTTAGAATCTGAAGAAATCGGAACAAAAGTAGAAGTTGTGGAAAGGAAAGAACATTT CACTGgtgagaaaatatttcaaggtatccagtgctttcagcactattaaacattagtgatgagaa atttatatgctgcatctgtatcgtgccatac

Please note: at the end of exon 3, two alternative splice donor sites are present (see Sequence Variations, page 40 of the application).

Fig. 19D

Exon 4 and Exon 5

Fig. 19F

Exon 7

ctttagaagctgacctgataatgtgggatgttgtattcttcagATGAATACCTGACAAAGCAG
TGGAAGTATCCAATTGAGCTTCATGGGATTGGTAAATATGGCAACGACTCTTACCGAATTTTTTGT
GTCAATGAGTGGAAGCAGgtgaggctcactcccatccataattcagcacatttggttaagacnatttattggggatacaaatgctattacagtcacaa
caattgtgttcctggctgcggggaagcgngtggcatgtgggtttttggggtttttgatcagtaggcg
ctcccagg

Fig. 19G

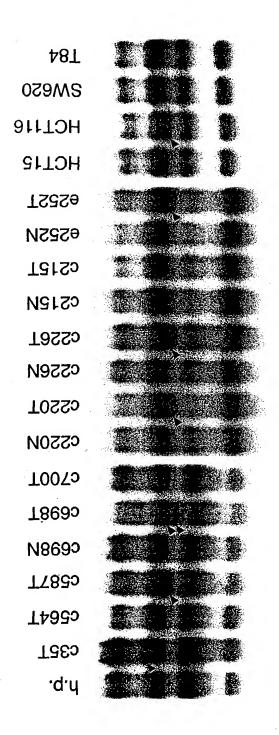
Exon 8

Please note: asterisk indicates the poly(A) addition site.

Fig. 19H

exon and the intron between exon Complete sequence of

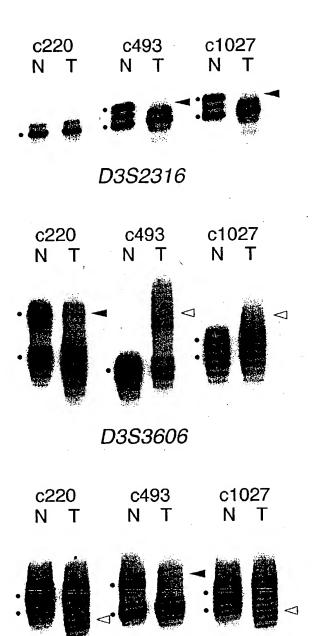
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c64T c54T c215N c215T



Fig. 20B



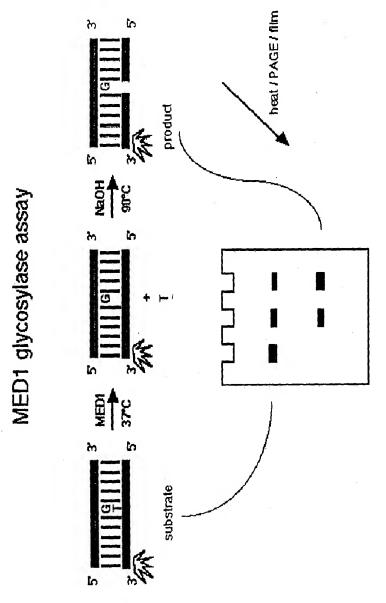
D3S1290

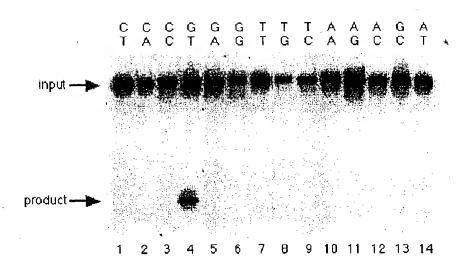
Fig. 20C

	Maukan	Location	c18	c220	c493	c1027	_* 8695	c1077
MED1 →	Marker: D3S1589 D3S3584 D3S2316 D3S3606 D3S1587 D3S1290 D3S1292 D3S3657 D3S1664 D3S1615 D3S3554	Location: 143.096 Mb 143.113 143.211 143.211 143.643 143.960 144.305 144.920 146.211 147.000 150.210						
				LO uni	H inform	ative	erozyo MSI	josity

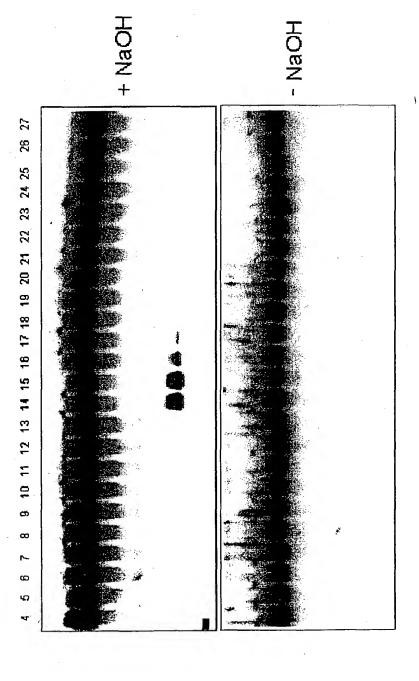
Fig. 20D

Fig. 21





* The asterisk indicates that the bottom oligonucleotide strand is radioactively labelled



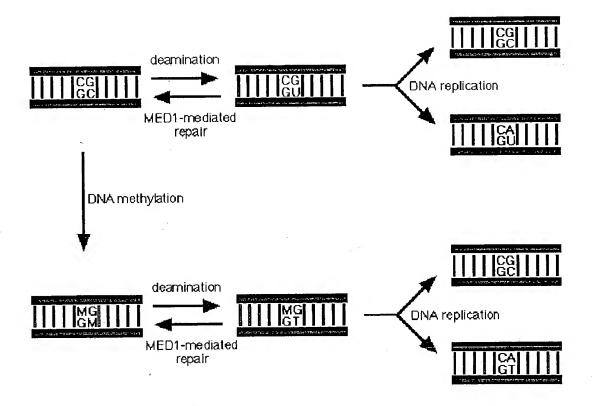


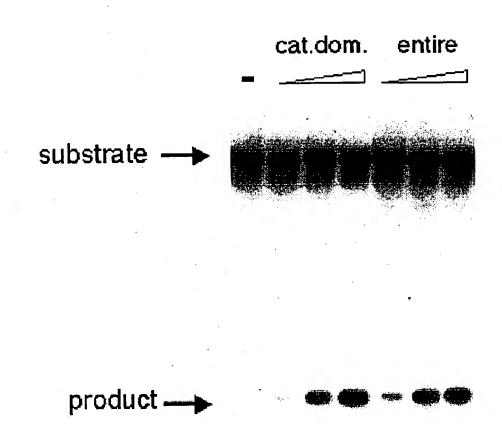
Fig. 24

GG AG TG CG MG T T T T T





Fig. 25



C G A T U U U U ↓

*The asterisk indicates that the bottom oligonucleotide strand is radioactively labelled

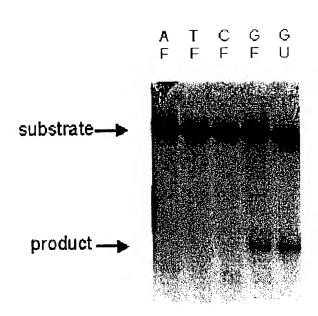


Fig. 28

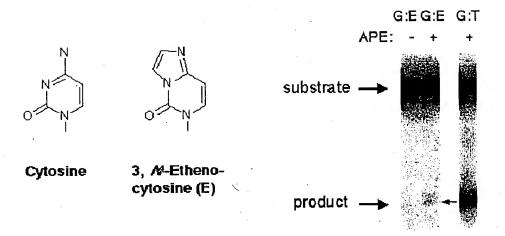
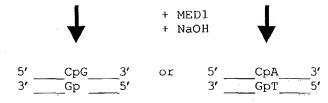


Fig. 29

1)	Denature DNA	fragments	and mix	with CT-	SNP prob	oe in order	to generate	heteroduplex
5 ′	CpG	_3′	5′	CpG	3′		eroduplex	
3 ′	GpC	_5′	3′	Gp T	5′	with	G:T mismat	ch
	allele 1							
	or .							
5 ′	CpA	_3′	5′	CpA	3 ′	ho	moduplex	
3 ′	GpT	5'	3' <u> </u>	Gp T	5′			
	allele 2					ü	,	
	+							
3 ′	Gp T	_5′						

2) Incubate annealed molecules with recombinant MED1 followed by NaOH in order to cleave heteroduplex



cleaved heteroduplex uncleaved homoduplex

CT-SNP probe

3) Separate fragments of the cleaved strand by standard techniques electrophoresis)